

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/18799

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F21V 1/00

US CL : 362/235

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,E ----- Y,E	US 6,756,893 B1 (FERNANDEZ) 29 June 2004 (29.06.2004), see entire document.	1,3,4,9-13,15,20- 24,26,27,29-35,39-42 ----- 2,5,6,7,8,14,16- 19,25,28,36-38,43-49
Y	US 5,121,287 A (LEE) 09 June 1992 (09.06.1992), see entire document.	2,7,8,16,19,36
Y	US 5,349,330 A (DIONG et al.) 20 September 1994 (20.09.1994), see entire document.	5,6,17,18,28,37,38,44- 49
Y	JP 11283415 A (TOKAWA) 15 October 1999 (15.10.1999), see entire document.	14,25,43
A,E	US 2004/0252499 A1 (TUMLINSON et al.) 16 December 2004 (16.12.2004), see entire document.	1-49
A,P	US 6,663,248 B2 (HSIEH et al.) 16 December 2003 (16.12.2003), see entire document.	1-49
A,P	US 2003/0197807 A1 (WU) 23 October 2003 (23.10.2003), see entire document.	1-49



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

10 February 2005 (10.02.2005)

Date of mailing of the international search report

18 FEB 2005

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/18799**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,400,104 B1 (HAM) 04 June 2002 (04.06.2004), see entire document.	1-49
A	US 5,893,626 A (POLING) 13 April 1999 (13.04.1999), see entire document.	1-49

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Continuation of B. FIELDS SEARCHED Item 1:

362/235,20,84,95,183,184,194,195,230-234,236,238,240,253,276,293,310,326,327,350,363,394,395,404,410,414,431,435;
439/669.2,628

Continuation of B. FIELDS SEARCHED Item 3:

USPGPUB, USPAT, EPO, JPO, DERWENT, IBM_TDB search terms: (first near light near source) or incandescent, (second near light near source) or ((light near emit\$6 near diod\$4) or LED), S1 and S2, S1 and S2 and socket and batter\$4